



电子电池传感器, 第三代

Electronic battery sensor, 3rd generation

高精准的

电压, 温度, 电池状态检测信号。

High accuracy of voltage, temperature and battery state detection signals.

电子电池传感器计算12伏铅酸电池的实时工作状态, 因而它是优化电能管理的关键部件。

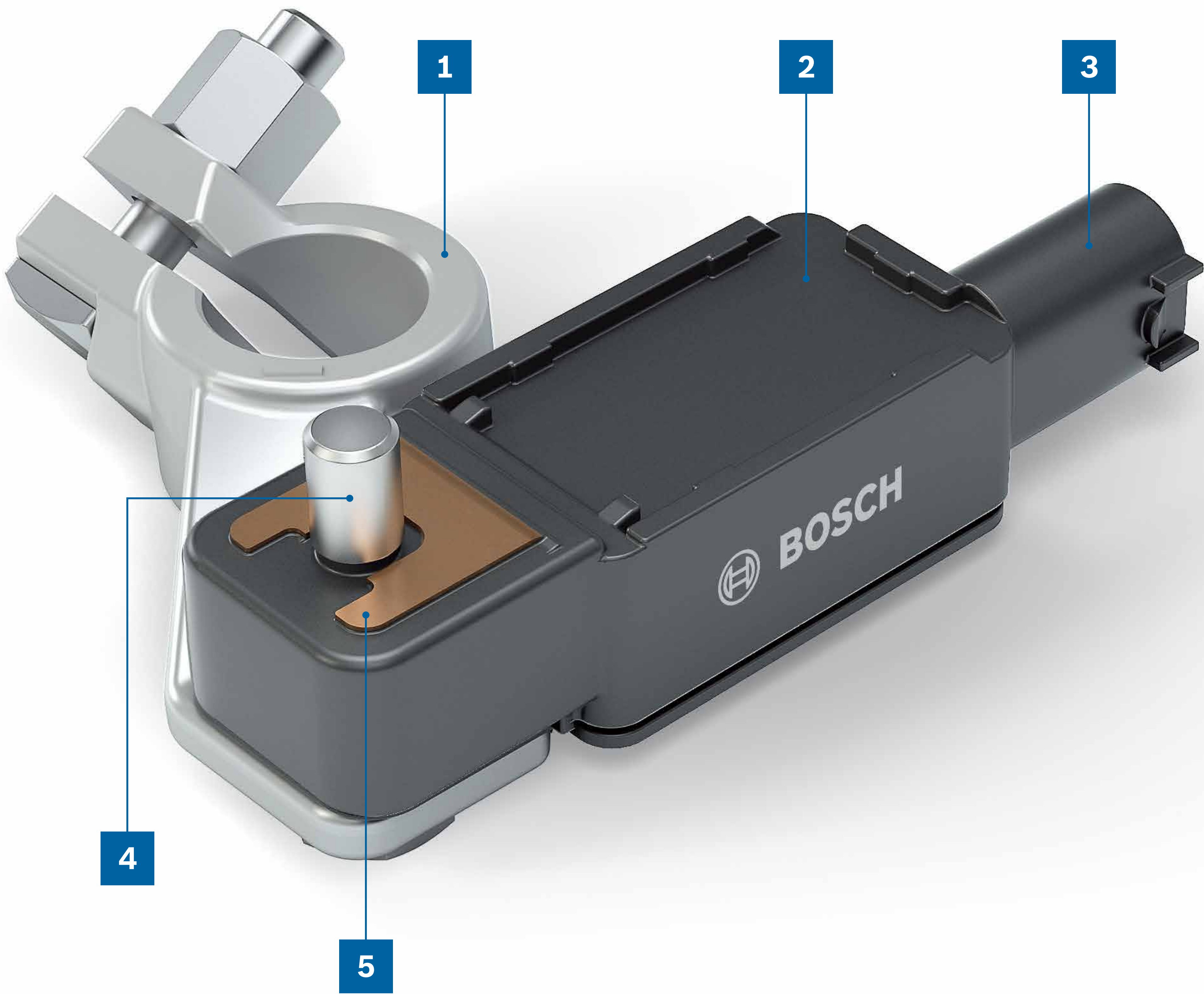
特点

- 使用20bit ADCs实现高精度测量
 - 电流: 1 mA ... 1 A $\pm 0.5 \%$
 - 1 A ... 1500 A $\pm 1.0 \%$
 - 电压: 6 V ... 18 V $\pm 0.2 \%$
 - 温度: 零下40摄氏度 ... 125摄氏度 $\pm 4 \text{ K}$
- 可用于金属片极夹和锻造极夹
- 可扩展ASIC (64 kB, 96 kB, 128 kB)
- 集成电池状态检测软件 (BSD)
- 支持起停功能及能量回收功能
- 车辆生产, 运输与运行期间的电池诊断
- 通过LIN接口进行通讯

The electronic battery sensor (EBS) calculates the performance of 12V-lead acid batteries and is therefore a key component for optimized electrical energy management (EEM). It supports functions to reduce CO₂ emissions like start/stop and recuperation.

Features

- High measurement accuracy using 20 bit ADCs
 - Current: 1 mA ... 1 A $\pm 0.5 \%$
 - 1 A ... 1500 A $\pm 1.0 \%$
 - Voltage: 6 V ... 18 V $\pm 0.2 \%$
 - Temperature: -40 °C ... 125 °C $\pm 4 \text{ K}$
- Available with sheet metal as well as forged pole clamp type
- Scalable ASIC (64 kB, 96 kB, 128 kB)
- Integrated battery state detection software (BSD)
- Enables start-stop and recuperation
- Battery diagnosis during vehicle production, transport and operation
- Communication via LIN interface



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|----------|-------------------------------|----------|--|
| 1 | 带螺母的极夹
Pole clamp with nut | 4 | 用于接地电缆固定的双头螺栓
Stud bolt for ground cable fixing |
| 2 | 传感器模块
Sensor module | 5 | 电流采样电阻
Shunt |
| 3 | 2针连接器
2 pin connector | | |